Scatterplots Comelection Regressia Regressin: I. Regression triding The best Given the 4 data below, find the regression line prediction \hat{y} for x = 80. fix line doulations a data pout x $(y-\overline{y})^2 (x-\overline{x})(y-\overline{y})$ $(x-\overline{x})^2$ $y - \overline{y}$ yScalleplat n=4 74-76= 121 22 74 98 -18 83 82 82 74.72 -26 87 50 99 -86 = 286 169 99 98 13 50 sum: 300 8387 99 asses sum $=s_y^2$ $(vec)^{\frac{1}{2}} s_{n}^{2}$ Correlation prelatin always between -1,1 standard positive means positive contact 0.98 - 15, 5+ deriate 60-0.32 $=b_1$ b, = 0.88 ¥ = 0.32+0.88 € = 0.32 + 0.88x Final answer ~0.32+0,88(80) - 0.32+70.4 $=\hat{y}(80)$ Regressier Ince = 70.12 kegress wie ausmplified